

## 1. Identification of the substance/preparation and the company

### 1.1 Identification of The Substance or Preparation:

Heat-Shrinkable Products

Tubing: FFRS, SPC, SP, SPUL, SPLT, SPZH, SPTW, STFE, SP3X, SP4X, SPDW,SK, SE150 SMWP, STWP, SPLICES, SPF3X

### 1.2. Company/Undertaking Identification

Premier Farnell plc

150 Armley Road

Leeds

LS12 2QQ

+44 (0) 8701 202530

### 1.3 Telephone number for emergency

+44 (0) 8701 202530

## 2. Composition/information on ingredients

Plastic materials may be based on polyethylene and olefin copolymers, chloropolymers, polyamides or silicones. Products may be coated with, or used in conjunction with adhesives/Mastics based on polyamides and/or olefin copolymers.

## 3. Hazards identification

- This safety Data Sheet applies to a group of products that are not hazardous as supplied.
- Products may emit hazardous thermal decomposition products if overheated or burnt (see section 10.2)

## 4. First aid measures

### 4.1 Eye Contact:

- If molten material contacts the eyes:  
Rinse immediately with plenty of water for 15 minutes.
- Consult a doctor/medical service if irritation persists.

### 4.2 Skin Contact:

- If molten material contacts the skin: Immediately flush with cold water for 15 minutes  
Do not attempt to remove material stuck to the skin – treat as a burn.
- Consult a doctor/medical service.

### 4.3 After Inhalation:

- If exposed to fumes from overheated or burnt material:  
Remove the victim into fresh air  
Keep warm and at rest
- Consult a doctor/medical service if breathing problems develop

### 4.4 After Ingestion:

Not applicable

## 5. Fire-fighting measures

### 5.1 Suitable Extinguishing Media:

- Water spray
- Polyvalent foam
- Dry chemical
- Carbon dioxide

## 5.2 Unsuitable Extinguishing Media:

- No data available.

## 5.3 Special Exposure Hazards:

- Toxic decomposition products may be evolved in a fire (see section 10.2)

## 5.4 Instructions:

- Not applicable

## 5.5 Special Protective Equipment For Firefighters:

- Self-contained breathing apparatus with full-face piece.
- Protective clothing for exposure to chemicals.

## 6. Accidental release measures

### 6.1 Personal Protection:

- Wear personal protective equipment (see section 8.3)

### 6.2 Environmental Precautions:

- Not applicable.

### 6.3 Clean-Up

- Pick-up for continued use or disposal

## 7. Handling and storage

### 7.1 Handling

- Refer to product installation instructions
- Avoid overheating the product after shrinkage has occurred
- Stop heating immediately if the product blisters, chars or shows others signs of degradation
- Avoid inhaling fumes which may be released and ventilate the area thoroughly before resuming work.
- Avoid contact with molten material
- Wash hands before eating, drinking or smoking.

### 7.2 Storage:

- Store in original packaging in a cool and dry area.
- Storage Temperature: < 40°C
- Product should be stored at temperatures below 40°C to void pre-recovery of expanded product.
  - Shelf Life Indefinite

### 7.3 Materials for Packaging:

- Materials to avoid: no data available.

## 8. Exposure controls/Personal protection

### 8.1 Recommended Engineering Controls:

- Use local exhaust ventilation of the workplace
- When using gas torches in confined spaces, ensure an adequate supply of fresh air to avoid oxygen depletion.

### Sampling Methods:

- Not applicable

### 8.2 Exposure Limits:

TLV (8 hour TWA) UK OEL (EH40/99):

- Not applicable

## 8.3 Personal Protection:

### Eye Protection:

- Safety glasses with side shield, goggles or face shield depending on the application

### Hand Protection:

- Heat resistant gloves if handling hot products after installation

### Skin Protection:

- Protective clothing

### Respiratory Protection:

- Not required for normal conditions of use

- Approved respirator or self contained breathing apparatus for installations in confined/unventilated areas.

### Other:

- Practice good standards of personal and industrial hygiene.

## 9. Physical and chemical properties

9.1	Appearance (at 20°C)	: Plastic tubing	
9.2	Odour	: None	
9.3	Colour	: Various	
9.4	Ph value	: N.A.	
9.5	Boiling point/Boiling range	: N.A.	°C
9.6	Melting point/Melting range	: 70-170	°C (Adhesive)
9.7	Flashpoint	: N.A.	°C
9.8	Auto-ignition point	: N.D.	°C
9.9	Explosion limits	: N.A.	vol%
9.10	Vapour pressure (at 20°C)	: N.A.	hpa
9.11	Relative density (at 20°C)	: 0.9-2.2	
9.12	Water solubility (at 20°C)	: Insoluble	
9.13	Soluble in	: N.D.	
9.14	Relative vapour density	: N.A.	
9.15	Saturation concentration	: N.A.	g/m <sup>3</sup>
9.16	Viscosity	: N.A.	Pa.s

## 10. Stability and reactivity

### 10.1 Stability:

- Stable under normal conditions

### 10.2 Reactivity/Hazardous Decomposition Products:

- Thermal decomposition is not significant when products are used in accordance with product installation instructions.

- At higher temperatures, and if materials burn, thermal decomposition products will depend on the base polymer used and may include, but are not limited to: alcohols, aldehydes, carbon monoxide, carbon dioxide, hydrocarbons, hydrogen bromide, hydrogen chloride, silicon dioxide and oxides of nitrogen, phosphorus and sulphur.

### 10.3 Conditions/Materials to Avoid:

- Not applicable

## 11. Toxicological information

### 11.1 Acute Toxicity:

LD50 Oral rat	: N.D.	mg/kg
LD50 Dermal rat	: N.D.	mg/kg
LD50 Dermal rabbit	: N.D.	mg/kg
LC50 Inhalation rat	: N.D.	mg/1/4 h

### 11.2 Chronic Toxicity:

EC carc. Cat.: not listed  
EC muta. Cat.: not listed  
EC repr. Cat.: not listed  
Carcinogenicity (TLV) : not listed  
IARC classification: These products have not been evaluated

### 11.3 Routes Of Exposure:

Inhalation of thermal decomposition products.

### 11.4 Acute Effects/Symptoms:

#### EYES:

- Overheating products during installation may produce vapours/fumes that can cause irritation and redness of the eye tissue.

#### SKIN:

- Contact with molten material may cause thermal burns

#### Inhalation:

- Overheating products during installation may produce vapours/fumes that can cause irritation of the respiratory tract. Symptoms may include coughing, headache, dizziness, nausea and in the absence of ventilation, possible asphyxiation.

#### Ingestion:

- Not a normal route of exposure

### 11.5 Chronic Effects:

- None known

## 12. Ecological information

### 12.1 Mobility:

- Insoluble in water

### 12.2 Biodegradation

- Soil	T ½	: N.D.	days
	BOD5	: N.A.	g o2/g substance
	COS	: NA.	g o2/g substance

- Water: - Not readily biodegradable

### 12.3 BioAccumulation:

- log Pow : N.D.

- BCF : N.D.

### 12.4 Aquatic Toxicity:

- No data available

## 12.5 Other Information:

- WGK: N.D.
- Effect on the ozone layer: None
- Waste water purification : N.D.

## 13 Waste Disposal Considerations

### 13.1 Provisions Relating to Waste:

- Waste code (EC) : N.A.

### 13.2 Disposal Methods:

- Landfill or incinerate at an approved site in accordance with national and local regulations.
- For incineration use a high temperature incinerator equipped with secondary combustion chamber and acid gas scrubber.

## 14 Transport Information

### 14.1 Proper shipping name: N.A

### 14.2 Transport by road/Rail (ADR/RID): N.A.

Danger code: -

Danger labels on tanks: -

On packages: -

### 14.3 Substance identification number (UN number) : N.A.

Packing: -

### 14.4 Maritime transport (IMDG code) : N.A.

EMS : -

MFAG : -

Marine Pollutant: -

### 14.5 Inland navigation (ADNR) : N.A.

### 14.6 Air freight (ICAO) : N.A.

Instruction "passenger" : -

Instruction "cargo" : -

### 14.7 Other information : Not restricted for any mode of international transport

## 15 Regulatory information

Labelling in accordance with EC directive 67-548-EEC and 1999/45/EEC

Not Applicable

## 16 Other information

Users are advised that they may have additional disclosure obligations under other national and local laws.

<b>Part Number</b>
SP3X6/2-5MBLACK

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